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| 092891 | מספר:<br>Number               |
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בקשה לפטנט  
Application for Patent

128-287

אני (שם המבקש, מענו ולגבי גוף מאגד - מקום התאגדותו)  
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ישראל

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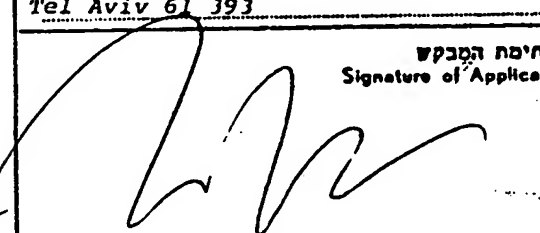
רצועה אלסטית לחיתול (בעברית)  
(Hebrew)

DAIPER ELASTIC BAND

(באנגלית)  
(English)

hereby apply for a patent to be granted to me in respect thereof.

מבקש בזאת כי ינתן לי עליה פטנט

| • בקשת חלוקה •<br>Application of Division   |                                | • בקשת פטנט מוסף •<br>Application for Patent Addition       |               | • דרישה רין קדימה •<br>Priority Claim |  |  |
|---|--------------------------------|---|---------------|---------------------------------------|--|--|
| מבקשת פטנט<br>from Application  | לבקשה/לפטנט<br>to Patent/Appl. | מספר/סימן<br>Number/Mark                                    | תאריך<br>Date | מדינת האגוד<br>Convention Country     |  |  |
| No. ....<br>dated .....   | No. ....<br>dated .....        |   |               |                                       |  |  |
| • ישרי כח: כללי / איחוד - רצוף כוח / עוד יוגש<br>P.O.A.: general/individual-attached/to be filed later-<br>הוגש בענין ..... filed in case ..... |                                |   |               |                                       |  |  |
| הסען למסירת פטנטים בישראל<br>Address for Service in Israel<br>Zvi Vromen<br>Patent Attorney<br>P.O. Box 39448<br>Tel Aviv 61 393                |                                |   |               |                                       |  |  |
| חתימת המבקש<br>Signature of Applicant   |                                | היום 21 בחודש דצמבר שנת 1989<br>This DEC ? of the year 1989 |               |                                       |  |  |
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## DIAPER ELASTIC BAND

This invention relates to a special tinting dyestuff for elastic bands to be incorporated in disposable diaper production, to indicate a colour change when the band comes into contact with urine.

### Background

Disposable, diapers are made nowadays with an elastic band usually tinted in dark blue. The elastic band is put in the diaper to assure a good grip of the polyethylene outer layer with the baby's body, and prevent as much as possible leaks of the baby's excretes into the panties, or other clothing worn by the baby.

It is quite common in some disposable diaper embodiments to introduce spots, or stripes of a special ink at any convenient place on the backing of the polyethylene layer. The ink used is made with a special dyestuff which reacts with urine, to change colour and disappear. Thus the disappearing ink spots or stripes give an indication to the person taking care of the baby that the diaper is wet and should be changed.

### Brief description of the Invention

It is the purpose of this invention to unite the two disposable diaper features and introduce an elastic band tinted with a special ink which when reacted with urine will change colour.

By introducing such an elastic band into the disposable diaper, the person taking care of the baby will be able to observe the colour change of the elastic band thus indicating that the baby excreted urine, and a diaper change is required. This should save the need of introducing the special ink spots or stripes described above.

It should be noted that in the process of preparing the elastic band for use in diapers the producers have to dye the white colourless elastic band before introducing it into the diaper. By using the above mentioned sensitive ink for this purpose one combines two operations into one thus saving labor time and production costs.

The most common ink used tinting the diapers is C13 Food Grade Ink<sup>®</sup> made by a UK company Willett Ltd. One usually applies either dark shades on body colour.

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The elastic band herein provided for use in disposable diapers is tinted with a dark or body shade dyestuff sensitive to urine; so that when urine comes into contact with said band a colour change of said band occurs, thus indicating a need for a diaper change, said band is placed at the wide section of the diaper, so that it is positioned on the hips of the baby, at the junction with the upper dry clothing..

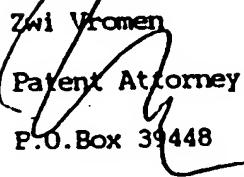
#### Example 1

A white lycra elastic for use in disposable diaper was tinted blue with CIJ Food Grade Ink<sup>c</sup>. The dyestuff is known to be sensitive to the urine acidity, and changes colour on contact with urine. The tinted lycra band was introduced into a disposable diaper, and on contact with urine the elastic band changed colour from blue to neutral, thus indicating the need for a diaper change.

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What is claimed

1. An elastic band for use in disposable diapers, tinted with a dark or body shade dyestuff sensitive to urine, so that when said band comes in contact with urine a colour change occurs thus indicating the need for a diaper change; said band is placed at the wide section of the diaper, so that it is positioned on the hips of the baby, at the junction with the upper dry clothing..
2. An elastic band as in claim 1 wherein said dyestuff is CIJ Food Grade Ink<sup>c</sup> made by Willett Ltd, UK.

  
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